

6. The recursive formula to describe a sequence is shown below.

$$a_1 = 3$$
$$a_n = 1 + 2a_{n - 1}$$

Choose 1

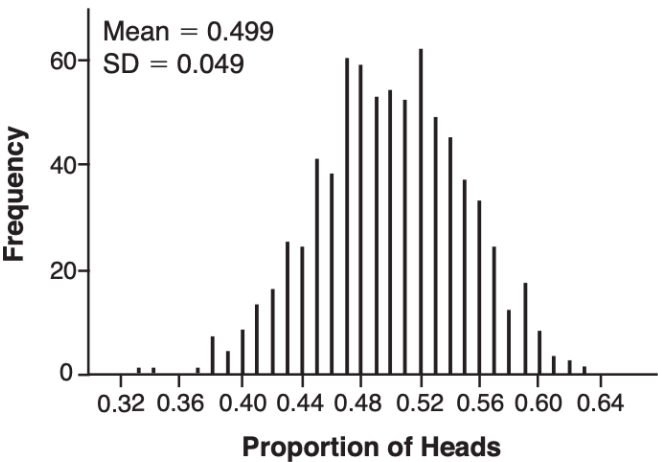
State the first four terms of this sequence.

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Can this sequence be represented using an explicit geometric formula? Justify your answer.

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7. Robin flips a coin 100 times. It lands heads up 43 times, and she wonders if the coin is unfair. She runs a computer simulation of 750 samples of 100 fair coin flips. The output of the proportion of heads is shown below.



Do the results of the simulation provide strong evidence that Robin’s coin is unfair? Explain your answer.

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